

ABSTRACT

The invention relates to a fuel delivery system for an internal combustion engine, having a fuel feed pump (10), which delivers fuel which is at pilot pressure to a high- pressure fuel pump (11) that communicates on the high- pressure side with at least one injection valve (14), in order to deliver fuel at high pressure to the injection valve or valves (14). To prevent vapor bubble development in the high-pressure fuel pump (11), which impairs its pumping capacity and pressure generation, it is provided according to the invention that a coolant medium flow can be delivered to the high-pressure fuel pump (11) via at least one coolant conduit (21, 31), in order to keep the temperature (T_{HDP}) of the high-pressure fuel pump (11) below a critical operating temperature (T_{k1}).

(Fig. 1)